

Patent claims

1. A retractile car roof, in particular a hard roof for a convertible, roadster, or the like with two or more seats, the roof having a rigid shell that has a main roof part and columns projecting fixedly downward at an obtuse angle from the rear of the main part, a rear window for a window opening, separate first and second storage compartments extending transversely of the vehicle axis immediately behind the seats and into which the main part and columns and the rear window and their guide and drive means are engageable, the main roof part with its columns being guided on a track into its storage compartment, characterized in that the first storage compartment (9) extends along an arc defined by the upward and downward travel of the roof main part (2) and columns (3) to a region lateral of the seats (8), upright rails (6) extending parallel to the vehicle longitudinal axis and fixed on the vehicle body forming, inside the storage compartment (9) and laterally adjacent the seats, guides for the columns (5) that move along the rails (6) via slides (5) on column ends (4).

2. The roof according to claim 1, characterized in that the guide paths are arcuate, preferably circularly arcuate.

3. The roof according to claim 1, characterized in that the columns (3) are reinforced by braces (13).

4. The roof according to claim 3, characterized in that the braces (13) can be flattened against the vehicle body or the columns (3) by pivoting and/or turning inward.

5. The roof according to claims 1 to 4, characterized in that the main roof part (2) is moved with its columns (3) by a motor into the first storage compartment (9).

6. The roof according to claim 1, characterized in that the main roof part (2) is formed of two parts, the front part (18) being slidable over the rear part (19).

7. The roof according to claim 6, characterized in that the front part (18) with its slide (T) is guided on rails (S) by links (L_N and L_M) engaging the slide (T).

8. The roof according to claims 1 to 6, characterized in that the rear window (11) is slightly arcuate or rotation symmetrical about a horizontal transverse axis of the vehicle and has a concave side 12 turned toward the interior of the vehicle.

9. The roof according to claims 1 to 8, characterized in that the second storage compartment (10) for the rear window (1) is immediately behind the seats (8) and immediately in front of the first storage compartment (9) for the roof part (2), the second

storage compartment (10) being shaped to the curvature of the rear window (11).

10. The roof according to claims 1 to 9, characterized in that the rear window is lowerable into the second storage compartment (10).

11. The roof according to claims 1 to 10, characterized in that the rear window (11) is a windscreen when raised.

12. The roof according to claims 1 to 10, characterized in that the rear window (11) is provided with an annular seal.

13. The roof according to claims 1 to 12, characterized in that the main roof part (2) is of rotation-symmetrical shape corresponding generally to that of the first storage compartment (9).

14. The roof according to claims 1 to 13, characterized in that the front main roof part (2) forms a roll bar (13) when partly lowered.

15. The roof according to claim 1, characterized in that the rails (6) are of square solid, square tubular, U-, C-, or double-T section and have hard surfaces.

16. The roof according to claim 1, characterized in that the guide slides (5) have slide pads or rollers.

17. The roof according to claims 1 to 17, characterized in that the are fixed or rotatable on ends (4) of the columns (5).

5 18. The roof according to claims 1 and 8 to 12, characterized in that the rear window (11) is pivotal on the vehicle body.

10 19. The roof according to claims 1 and 8 to 12, characterized in that the rear window (11) is movable on guides extending parallel inside the roof shell.